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## BRIEFER ARTICLES.

**Pleodorina in Indiana.**—On the eleventh of last May the writer collected specimens of *Callitriche heterophylla* Pursh, and *Nitella* sp.? from a shallow, stagnant pond near Bloomington, Ind. A small quantity of this material was kept fresh in a bell-jar in a north window of the laboratory. On June 29th, while searching for unicellular algæ for the use of my class, I noticed numbers of little, pale green specks along the wall of the glass vessel below the surface of the water. They were at once taken to be *Volvox*. A microscopic examination convinced me, however, that these plants differed from any *Volvox* that I had ever seen.

Having no special literature on the *Volvocineæ*, I did not feel certain as to the precise limits of the genus *Volvox*.

However, a study of the life history was begun immediately as, in the specimens in question, the asexual development from the gonidia could be very readily followed.

While in the midst of my investigations, the *BOTANICAL GAZETTE* for July, to my agreeable surprise, brought me the paper of Mr. W. R. Shaw of Stanford University on "*Pleodorina*, a new genus of the *Volvocineæ*."

A glance at this paper convinced me that the organism at hand was *Pleodorina Californica* Shaw, and a closer comparison confirmed the opinion. Almost every detail in the study made by me agreed with those presented in Mr. Shaw's paper.

Together with few minor details which may be of little importance, some of the specimens examined by me, however, were a little larger than the measurements given in the paper. The plant body of the largest individuals observed, measured  $352\mu$  in diameter, the gonidia just previous to the first division,  $24-32\mu$ ; vegetative cells, just one-half of the gonidia in the same colony,  $12-16\mu$ .

Up to July 27th the plants, then numbering thousands in the same bell-jar, were in good condition, multiplying rapidly.

It is to be hoped that the sexual reproduction, if possessed by this plant, may occur and be observed this fall.—DAVID M. MOTTIER, *Indiana University, Bloomington.*

**Pleodorina in Illinois.**—The new alga *Pleodorina Californica* described in the July *GAZETTE* was found during the month of June in abundance at Havana, Ill. by Prof. T. J. Burrill and myself. This is where the University of Illinois has its new Experiment Station for